

oviding Custom Sensor Solutions

GAGE HEAD 0-10VDC Output LVDT NT-GE-750 Series

The NewTek GE Series Gage Head LVDTs are designed to work with DC voltage, and have excellent linearity, high sensitivity and high resolution. They permit highly accurate readout and recording of an output signal directly without auxiliary signal conditioning electronics. These GE Series spring-loaded LVDTs are designed for a wide range of position measurement and dimensional gaging applications and available in ranges of 0.10 inch (2.5mm) to 4 inches (100mm).

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Calvino 7 Lotto 1 - Edificio A13-14

Features

- Spring loaded probe
- Welded 3/4 inch hermetically sealed steel housing
- Measurement ranges from \pm 0.10 to \pm 4 inches
- Linearity ±0.15% of Full Range Typical •
- Shock and vibration tolerant
- Choice of probe contact tips
- Standard and custom models available

Electrical Specifications

Full Scale Output: 0 to 10VDC

Input Power: 24VDC, 25mA Nominal Linearity: < ± 0.15% Full Range Typical Hysteresis: <0.01% of Full of FSO Typical Repeatability: <0.01% of Full Range Typical

Applications

- Pinch and roller alignment
- Dimensional gaging
- Factory automation
- Materials testing
- Packaging equipment
- **TIR** measurements



Environmental Specifications

Operating Temperature:	0°F to 185° F (-20∘C to 85∘C)
Thermal Coefficient:	< -0.014%/ °F (< -0.025%/°C) of Full Range
Humidity:	90% R.H., 240 of FSO Typical
Shock Survival:	1000 g, 11 ms
Vibration:	20 g to 2 KHz

Materials Specifications

Housing: Corrosion-resistant nickel-iron alloy Core: Hi-permeability nickel-iron alloy Magnet Wire: Film insulated copper Connector: PT02A-10-6P Probe: AGD #9 contact tip

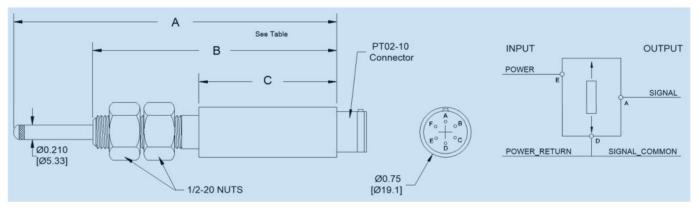
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Specifications

Model	NT-GE-750-	NT-GE-750-	NT-GE-750-	NT-GE-750-	NT-GE-750-	NT-GE-750-
Parameter	100	250	500	1000	2000	4000
Nominal Range (inches)	0.10	0.25	0.50	1.0	2.0	4.0
Nominal Range (mm)	2.5	6.3	12.5	25.0	50.0	100.0
Scale Factor (V/inch)	100	40	20	10	5.0	2.5
Scale Factor V/mm)	4.0	1.6	0.8	0.4	0.2	0.1
Dimension " A" (inches)	5.45	6.05	6.85	11.35	13.80	21.75
Dimension " B" (inches)	4.35	5.00	5.70	9.85	11.35	17.19
Dimension " C" (inches)	2.80	3.45	4.15	6.75	8.15	11.71
Body Weight (ounces)	3.0	3.5	4.1	6.5	6.9	10.5
Body Weight (grams)	83	101	171	182	298	296

Dimensions and Wiring



Ordering Info



Notes:

- Electrical specifications measured at 3KHz excitation frequency.
- Additional options and alternate contact tips are available. Please consult factory for custom designs.
- Specifications subject to change.

Warranty

NewTek products are warranted against defective materials and workmanship for a period of one year from the date of delivery to the original purchaser. NewTek accepts no liability for damages in the misuse of our products.



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